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# Customer information database project with three tables:
# address -- address line, city, and state code.
# orders -- product code, product description, and transaction data.
# customer -- name, email, phone, purchase date, address, and order
information.
```

```
# @_CREATE_DATABASE_
CREATE DATABASE mysqldev;
USE mysqldev;
# Pre-configure the database.
DROP TABLE IF EXISTS address;
DROP TABLE IF EXISTS orders;
DROP TABLE IF EXISTS customer;
```

```
DROP TABLE IF EXISTS address;
# @_CREATE_TABLE_
CREATE TABLE address (
    address_id INT NOT NULL AUTO_INCREMENT,
    address_line1 VARCHAR(100) NOT NULL,
    address_line2 VARCHAR(100) NOT NULL,
    city VARCHAR(100) NOT NULL,
    state_cd VARCHAR(2) NOT NULL,
    PRIMARY KEY (address_id)
);
```

```
DROP TABLE IF EXISTS orders;
# @_CREATE_TABLE_
CREATE TABLE orders (
    order_id INT NOT NULL AUTO_INCREMENT,
    product_code VARCHAR(100) NOT NULL,
    product_description VARCHAR(100) NOT NULL,
    transaction_date DATE NOT NULL,
    PRIMARY KEY (order_id)
);
```

```
DROP TABLE IF EXISTS customer;
# @_CREATE_TABLE_
CREATE TABLE customer (
    customer_id INT NOT NULL AUTO_INCREMENT,
    first_name VARCHAR(100) NOT NULL,
    last_name VARCHAR(100) NOT NULL,
    email VARCHAR(100) NOT NULL,
    phone VARCHAR(100) NOT NULL,
    date_purchased DATE NOT NULL,
    address_id INT NOT NULL,
    order_id INT NOT NULL,
    PRIMARY KEY (customer_id),
    FOREIGN KEY (address_id) REFERENCES address (address_id),
    FOREIGN KEY (order_id) REFERENCES orders (order_id),
    UNIQUE (email)
);
```

```
# @_ALTER_TABLE_
ALTER TABLE address ADD zip VARCHAR(10) NOT NULL;
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ALTER TABLE address ADD latitude INT NOT NULL;  
ALTER TABLE address ADD longitude INT NOT NULL;
```

```
# @_CREATE_TABLE_  
INSERT INTO address (address_line1, address_line2, city, state_cd,  
zip, latitude, longitude)  
VALUES ("309 W Woods St", "East Village", "New York", "NY", 18321,  
13.3123123, 31.3131312312);  
INSERT INTO address (address_line1, address_line2, city, state_cd,  
zip, latitude, longitude)  
VALUES ("402 Queens Rd", "N/A", "Irvine", "CA", 12381, 21.13141412,  
31.1241212124);  
INSERT INTO orders (product_code, product_description,  
transaction_date) VALUES ("131245315", "Lenovo PC", "2022-08-01");  
INSERT INTO orders (product_code, product_description,  
transaction_date) VALUES ("386161269", "USB-Serial Adapter",  
"2022-07-29");  
INSERT INTO orders (product_code, product_description,  
transaction_date) VALUES ("132078068", "Sanitizer", "2022-07-29");  
INSERT INTO orders (product_code, product_description,  
transaction_date) VALUES ("425346436", "Book", "2022-10-10");  
INSERT INTO customer (first_name, last_name, email, phone,  
date_purchased, address_id, order_id)  
VALUES ("Tom", "Hanks", "th@outlook.com", "901327636", "2022-08-01",  
1, 1);  
INSERT INTO customer (first_name, last_name, email, phone,  
date_purchased, address_id, order_id)  
VALUES ("Jamie", "Hanks", "jh@outlook.com", "2132037822",  
"2022-07-29", 1, 2);  
INSERT INTO customer (first_name, last_name, email, phone,  
date_purchased, address_id, order_id)  
VALUES ("Taylor", "Swift", "ts@outlook.com", "3123231313",  
"2022-07-29", 2, 3);  
INSERT INTO customer (first_name, last_name, email, phone,  
date_purchased, address_id, order_id)  
VALUES ("Zach", "Yang", "zy@outlook.com", "9013271332",  
"2022-10-10", 2, 4);  
  
COMMIT;
```